Test Report No.:	**LD910612L04**
Client	
Name :	**ADVANTECH CO., LTD**
Address :	No. 1 Alley 20, Lane 26, Rueiguang Road, Neihu District Taipei 114, Taiwan, R.O.C.
Test Item :	**Industrial Computer**
Identification :	**IPC-611XX-XXX (X can be any alphanumeric character or blank)**
Testing laboratory	
Name :	Advance Data Technology Corporation
Address :	No. 46, Lane 504, Chung Hsiao Road, Lin Kou Hsiang, Taipei, R.O.C.
Test specification	
Standard :	**EN 60950, 3rd Edition:2000**
Test Result :	The test item passed.
Tested By :	Signature: Ted Wu Supervisor Date: August 26, 2002
Approved By:	Signature: Angus Hsu Manager Date: August 26, 2002
Other Aspects: The completed test report includes the following documents: ■ EN 60950 report (42 pages)	■ CNLA 0528 ILAC MRA

The test report shall not be reproduced except in full, without written approval of the laboratory. This test report does not entitle to carry any safety mark on this or similar products.

TEST REPORT

EN 60950

Safety of information technology equipment including electrical business equipment

Report

Reference No. ..... : LD910612L04

Compiled by (+ signature) ..... : See cover sheet .....

Approved by (+ signature) ..... : See cover sheet .....

Date of issue ..... : August 26, 2002

This report is based on a blank test report that was prepared by KEMA using information obtained from the TRF originator (see below).

Testing laboratory

Name ..... : Advance Data Technology Corporation

Address ..... : No. 46, Lane 504, Chung Hsiao Road, Lin Kou Hsiang, Taipei, Taiwan.

Testing location ..... : Advance Data Technology Corporation

Address ..... : No. 46, Lane 504, Chung Hsiao Road, Lin Kou Hsiang, Taipei, Taiwan.

Client

Name ..... : **ADVANTECH CO., LTD**

Address ..... : No. 1 Alley 20, Lane 26, Rueiguang Road, Neihu District Taipei 114, Taiwan, R.O.C.

Test specification

Standard ..... : EN 60950:2000

Test procedure ..... : This Test Report is not valid as a CCA Test Report unless signed by a CCA Testing Laboratory and appended to a CCA Test Certificate.

Procedure deviation ..... : N/A.

Non-standard test method ..... : N/A.

Test Report Form/blank test report

Test Report Form No. ..... : 60950__D/97-08

TRF originator. ..... : FIMKO

Master TRF ..... : Reference No. 60950 D, dated 97-02

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Test item

Description ..... : INDUSTRIAL COMPUTER

Trademark ..... : ADVANTECH

Model and/or type reference ..... : IPC-611XX-XXX (X can be any alphanumeric character or blank)

Manufacturer ..... : ADVANTECH CO., LTD.

Rating(s) ..... : AC 115 / 230 VAC, 60 / 50Hz, 9 / 5 A.

Copy of marking plate and summary of test results (information/comments):

INDUSTRIAL COMPUTER
MODEL: IPC-611XX-XXX
RATING: 115 / 230 VAC, 60/50Hz, 9 / 5 A

THIS DEVICE COMPLES WITH PART 15 FCC RULES OPERATION ISSUBJECT TO THE FOLLOWING TWO CONDITIONS:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATOR.

ADVANTECH CO., LTD.

Particulars: test item vs. test requirements

Equipment mobility.....: Moveable or Rack mountable

Operating condition.....: Continuous

Mains supply tolerance (%) ..... : +6%, -10%

Tested for IT power systems.....: No

IT testing, phase-phase voltage (V) .....: N/A

Class of equipment.....: Class I

Mass of equipment (kg).....: 16.6 kg

Protection against ingress of water .....: IPX0

Test case verdicts

- test case does not apply to the test object.....: N/A

- test object does meet the requirement.....: Pass

- test object does not meet the requirement .....: Fail

Testing

Date of receipt of test item .....: July 02, 2002

Date(s) of performance of test.....: July 31, 2002

General remarks

This test report shall not be reproduced except in full without the written approval of the testing laboratory.
The test results presented in this report relate only to the item tested.
"(see remark #)" refers to a remark appended to the report.
"(see appended table)" refers to a table appended to the report.
Throughout this report a comma is used as the decimal separator.

Brief description of the test equipment:

1) The equipment is a Class I INDUSTRIAL COMPUTER with building-in certified power supply

2) Dimension: 482 by 480 by 177 mm.

3) Maximum operating Temperature: 40℃.

Test condition:

Temperature : 25℃.
Relative humidity: 60%
Air pressure: 900 mbar.

The test sample was a pre-production sample without serial number.

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
1	**GENERAL**		
1.5	**Components**		
1.5.1	Comply with IEC60950 or relevant component standard	(see appended table 1.5.1)	Pass
1.5.2	Evaluation and testing of components	Components, which were found to affect safety aspects, are complied with the requirements of this standard or within the safety aspects of the relevant IEC component standards. (see appended table)	Pass
	Dimensions (mm) of mains plug for direct plug-in ..... :	The equipment is not direct plug-in type.	N/A
	Torque and pull test of mains plug for direct plug-in; torque (Nm); pull (N)..... :	The equipment is not direct plug-in type.	N/A
1.5.3	Thermal controls	No thermal control.	N/A
1.5.4	Transformers	Transformer used is suitable for their intended application and comply with the relevant requirements of the standards.	Pass
1.5.5	Interconnecting cables	Interconnecting cable for Interconnection is carrying only SELV voltages on an energy level below 240 VA. Except for the insulation material, there is no further requirements to the o/p interconnection cable.	Pass
1.5.6	Capacitors in primary circuits ..... :	In approved SPS	Pass
1.5.7	Double or reinforced insulation bridged by components		N/A
1.5.7.1	Bridging capacitors		N/A
1.5.7.2	Bridging resistors		N/A
1.5.7.3	Accessible parts		Pass
1.5.8	Components in equipment for IT power systems	TN system	N/A

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

1.6	**Power interface**		Pass
1.6.1	AC power distribution systems	Highest load according to 1.2.2.1 for this requipment is: Unit continuously crossed reading and writig data between HDD, CD-ROM drive, FDD, each USB port load 2.5W and working continuously. Results see appended table.	Pass
1.6.2	Input current	(see appended table 1.6.2)	Pass
1.6.3	Voltage limit of hand-held equipment	This appliance is not a hand-held equipment.	N/A
1.6.4	Neutral conductor		N/A

1.7	**Marking and instructions**		Pass
1.7.1	Power rating		Pass
	Rated voltage(s) or voltage range(s) (V) .....:	AC 115 / 230 VAC	Pass
	Symbol for nature of supply for d.c. .....:	Mains from AC source	N/A
	Rated frequency or frequency range (Hz) .....:	60/50Hz	Pass
	Rated current (A) .....:	9 / 5 A	Pass
	Manufacturer's name/Trademark .....:	ADVANTECH CO., LTD.	Pass
	Type/model .....:	IPC-611XX-XXX (X can be any alphanumeric character or blank)	Pass
	Symbol of Class II .....:	Class I equipment.	N/A
	Other symbols .....:	--	N/A
	Certification marks .....:	CE	Pass
1.7.2	Safety instructions	The users manual provided.	Pass
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N/A
1.7.4	Supply voltage adjustment .....:		N/A
1.7.5	Power outlets on the equipment .....:	No outlet	N/A

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.6	Fuse identification .....:	Located in approved power supply.	N/A
1.7.7	Wiring terminals		N/A
1.7.7.1	Protective earthing and bonding terminals	In approved power supply	Pass
1.7.7.2	Terminal for a.c. mains supply conductors	Appliance inlet used	N/A
1.7.8	Controls and indicators	Indicator not effecting safety	N/A
1.7.8.1	Identification, location and marking .....:		Pass
1.7.8.2	Colours .....:	No safety involve indicator used	N/A
1.7.8.3	Symbols according to IEC 60417.....:	Marking for the switch according 60417-1-IEC-5007/5008.	Pass
1.7.8.4	Markings using figures .....:		N/A
1.7.9	Isolation of multiple power sources .....:	Only one supply from the mains.	N/A
1.7.10	IT power system		N/A
1.7.11	Thermostats and other regulating devices	No adjustable thermostats	N/A
1.7.12	Language .....:	English	—
1.7.13	Durability	The label was subjected to the test for permanence of marking. The label was rubbed with cloth for 15 sec. And then rubbed by the cloth soaked with Naphtha for 15 sec. After this test there was no damage to the label. The marking on the label did not fade. There was no curling nor lifting on the label edge.	Pass
1.7.14	Removable parts	Markings is not placed on removable parts	N/A
1.7.15	Replaceable batteries	Lithium battery for Real Time Clock (RTC). Warning sentence printed in manual or close to the battery.	Pass
	Language .....:	English	—
1.7.16	Operator access with a tool.....:	There is no hazard parts can be touched for operator access with a tool	Pass
1.7.17	Equipment for restricted access locations .....:	No restricted access location	N/A

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

2	**PROTECTION FROM HAZARDS**		Pass
2.1	Protection from electric shock and energy hazards		Pass
2.1.1	Protection in OPERATOR access areas	As the installation guide specifies directions for the operator how to add additional memory cards or add-on cards inside the enclosure, the inside of this INDUSTRIAL COMPUTER is considered as operator accessible area. Even the INDUSTRIAL COMPUTER enclosure is disassembled, the accessible SPS is covered by earthed metal enclosure. The construction of this metal enclosure prevents the access, using test pin or test finger or test probe, to any parts having only basic insulation to ELV or hazardous voltage.	Pass
2.1.1.1	Access to energized parts	See below	Pass
	Test by inspection .....:	Can not access to hazardous parts	Pass
	Test with test finger .....:	Can not access to hazardous parts	Pass
	Test with test pin .....:	Can not access to hazardous parts	Pass
	Test with test probe .....:		N/A
2.1.1.2	Battery compartments.....:		N/A
2.1.1.3	Access to ELV wiring	No ELV wiring in operator accessible area.	N/A
	Working voltage (V); distance (mm) through insulation		—
2.1.1.4	Access to hazardous voltage circuit wiring	No hazardous voltage wiring in operator accessible area.	N/A
2.1.1.5	Energy hazards .....:	Energy does not exceed HAZARDOUS ENERGY LEVEL (240VA) between any two points in accessible parts (o/p connector of secondary circuit).	N/A
2.1.1.6	Manual controls	The equipment does not contain any knobs, handles, levers, or the like.	N/A

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
2.1.1.6	Manual controls		N/A
2.1.1.7	Discharge of capacitors in the primary circuit	Approved power supply used.	N/A
	Time-constant (s); measured voltage (V) ..... :		—
2.1.2	Protection in service access areas	No maintenance work in operation mode necessary.	N/A
2.1.3	Protection in restricted access locations	It is not intended to be used in restricted locations.	N/A
2.2	SELV circuits		Pass
2.2.1	General requirements	42.4V peak or 60VDC are not exceeded in SELV circuit under normal operation or single fault condition.	Pass
2.2.2	Voltages under normal conditions (V)..... :	Between any SELV circuits 42.4V peak or 60VDC are not exceeded.	Pass
2.2.3	Voltages under fault conditions (V) ..... :	Single fault did not cause excessive voltage in accessible SELV circuits. Limits of 71V peak and 120VDC were not exceed and SELV limits not for longer than 0.2 seconds.	Pass
2.2.3.1	Separation by double or reinforced insulation (method 1)		N/A
2.2.3.2	Separation by earthed screen (method 2)		N/A
2.2.3.3	Protection by earthing of the SELV circuit (method 3)	Approved Power Supply used.	Pass
2.2.4	Connection of SELV circuits to other circuits ..... :	See 2.2.2 and 2.2.3. No direct connection between SELV and any primary circuits.	N/A
2.3	TNV circuits		N/A
2.3.1	Limits		N/A
	Type of TNV circuits..... :		—
2.3.2	Separation from other circuits and from accessible parts		N/A
	Insulation employed ..... :		—
2.3.3	Separation from hazardous voltages		N/A
	Insulation employed ..... :		—
2.3.4	Connection of TNV circuits to other circuits		N/A
	Insulation employed ..... :		—

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
2.3.5	Test for operating voltages generated externally		N/A
2.4	Limited current circuits		N/A
2.4.1	General requirements		N/A
2.4.2	Limit values		N/A
	Frequency (kHz)..... :		—
	Measured current (mA)..... :		—
	Measured voltage (V)..... :		—
	Measured capacitance (μF) ..... :		—
2.4.3	Connection of limited current circuits to other circuits		N/A
2.5	Limited power sources		N/A
	Inherently limited output		N/A
	Impedance limited output		N/A
	Overcurrent protective device limited output		N/A
	Regulating network limited output under normal operating and single fault condition		N/A
	Regulating network limited output under normal operating conditions and overcurrent protective device limited output under single fault condition		N/A
	Output voltage (V), output current (A), apparent power (VA) .....:		—
	Current rating of overcurrent protective device (A)		—
2.6	**Provisions for earthing and bonding**		Pass
2.6.1	Protective earthing	Parts connected to protective earthing reliably.	Pass
2.6.2	Functional earthing	Secondary functional earthing is connected to protectively earthed conductive part that separated from primary by basic insulation.	Pass
2.6.3	Protective earthing and protective bonding conductors	See below.	Pass
2.6.3.1	Size of protective earthing conductors	See appended table.	Pass
	Rated current (A), cross-sectional area (mm^2), AWG ..... :	Dto	—
2.6.3.2	Size of protective bonding conductors	See 2.6.3.3	Pass
	Rated current (A), cross-sectional area (mm^2), AWG ..... :		—

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
2.6.3.3	Rated current (A), type and nominal thread diameter (mm)..... :	Evaluation by test. Rated current below 16A.	Pass
	Resistance (Ω) of earthing conductors and their terminations, test current (A)..... :	See appended table for protective bonding conductor.	Pass
2.6.3.4	Colour of insulation ..... :	Green/yellow wire used.	Pass
2.6.4	Terminals	See below.	Pass
2.6.4.1	Protective earthing and bonding terminals	Appliance inlet used.	Pass
	Rated current (A), type and nominal thread diameter (mm)..... :		—
2.6.4.2	Separation of the protective earthing conductor from protective bonding conductors	Protective earthing conductor is in appliance inlet; green/yellow wire is provided for protective bonding conductor from appliance inlet to metal enclosure.	Pass
2.6.5	Integrity of protective earthing	See below.	Pass
2.6.5.1	Interconnection of equipment	No any other of interconnection of euipment.	Pass
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	No switch or overcurrent protective device in protective earthing or bonding connector.	Pass
2.6.5.3	Disconnection of protective earth	Appliance inlet provided.	Pass
2.6.5.4	Parts that can be removed by an operator	Plug or inlet, earthing connected before and disconnected after hazardous voltage. No other operator remove parts.	Pass
2.6.5.5	Parts removed during servicing	It is not necessary to disconnect earthing except for the removing of the earthed part itself.	Pass
2.6.5.6	Corrosion resistance	All safety earthing connections in compliance with Annex J.	Pass
2.6.5.7	Screws for protective bonding	In approved power supply.	Pass
2.6.5.8	Reliance on telecommunication network	No TNV	N/A

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
2.7	**Overcurrent and earth fault protection in primary circuits**		Pass
2.7.1	Basic requirements	Approved Power Supply used	Pass
	Instructions when protection relies on building installation		N/A
2.7.2	Faults not covered in 5.3		N/A
2.7.3	Short-circuit backup protection		N/A
2.7.4	Number and location of protective devices .....:	One fuse in approved power supply	Pass
2.7.5	Protection by several devices		N/A
2.7.6	Warning to service personnel .....:		N/A
2.8	**Safety interlocks**		N/A
2.8.1	General principles		N/A
2.8.2	Protection requirements		N/A
2.8.3	Inadvertent reactivation		N/A
2.8.4	Fail-safe operation		N/A
2.8.5	Interlocks with moving parts		N/A
2.8.6	Overriding an interlock		N/A
2.8.7	Switches and relays in interlock systems		N/A
2.8.7.1	Contact gaps (mm) .....:		N/A
2.8.7.2	Overload test		N/A
2.8.7.3	Endurance test		N/A
2.8.7.4	Electric strength test (V)		N/A
2.8.8	Mechanical actuators		N/A
2.9	**Electrical insulation**		N/A
2.9.1	Properties of insulating materials		N/A
2.9.2	Humidity conditioning		N/A
2.9.3	Requirements for insulation		N/A
2.9.4	Insulation parameters		N/A
2.9.5	Categories of insulation		N/A
2.10	**Clearances, creepage distances and distances through insulation**		Pass
2.10.1	General		Pass
2.10.2	Determination of working voltage	AC 230V	--
2.10.3	Clearances	See below	Pass
2.10.3.1	General		Pass

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
2.10.3.2	Clearances in primary circuit	In approved Power Supply	Pass
2.10.3.3	Clearances in secondary circuits		N/A
2.10.3.4	Measurement of transient levels		N/A
2.10.4	Creepage distances	In approved Power Supply.	Pass
	CTI tests.....:		—
2.10.5	Solid insulation		N/A
2.10.5.1	Minimum distance through insulation		N/A
2.10.5.2	Thin sheet material		N/A
	Number of layers (pcs).....:		—
	Electric strength test		—
2.10.5.3	Printed boards		N/A
	Distance through insulation		N/A
	Electric strength test for thin sheet insulating material		—
	Number of layers (pcs).....:		N/A
2.10.5.4	Wound components		N/A
	Number of layers (pcs).....:		N/A
	Two wires in contact inside component; angle between 45° and 90°		N/A
2.10.6	Coated printed boards	No coated printed board used.	N/A
2.10.6.1	General		N/A
2.10.6.2	Sample preparation and preliminary inspection		N/A
2.10.6.3	Thermal cycling		N/A
2.10.6.4	Thermal ageing (°C).....:		N/A
2.10.6.5	Electric strength test		—
2.10.6.6	Abrasion resistance test		N/A
	Electric strength test		—
2.10.7	Enclosed and sealed parts.....:	No hermetically sealed components.	N/A
	Temperature $T_1=T_2 = T_{mra} - T_{amb} +10K$ (°C).....:		N/A
2.10.8	Spacings filled by insulating compound .....:		N/A
	Electric strength test		—
2.10.9	Component external terminations		N/A
2.10.10	Insulation with varying dimensions	Insulation kept homogenous.	N/A

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
3	**WIRING, CONNECTIONS AND SUPPLY**		Pass
3.1	**General**		Pass
3.1.1	Current rating and overcurrent protection	Secondary output cable is UL recognized wiring which is PVC insulated, rated VW-1, min. 80℃, 300V. Internal wiring gauge is suitable for current intended to be carried. No internal wire for primary power distribution.	Pass
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges and heatsinks which could damage the insulation and cause hazard.	Pass
3.1.3	Securing of internal wiring	The wires are secured by soldering so that a lossening of the terminal connection in unlikely.	Pass
3.1.4	Insulation of conductors	The insulation of the individual conductors are suitable for the application and the working voltage. For the insulation material see 3.1.1.	Pass
3.1.5	Beads and ceramic insulators	Not used.	N/A
3.1.6	Screws for electrical contact pressure	No screws used for electrical connections. No screws of insulating material for connection, or where supplementary or reinforced insulation could be impaired by metal replacement.	N/A
3.1.7	Non-metallic materials in electrical connections		N/A
3.1.8	Self-tapping and spaced thread screws	No self tapping screws are used.	N/A
3.1.9	Termination of conductors	All conductors are reliable secured.	Pass
	10 N pull test		Pass
3.1.10	Sleeving on wiring		N/A
3.2	**Connection to a.c. mains supplies**		Pass
3.2.1	Means of connection .....:	Appliance inlet	Pass
3.2.2	Multiple supply connections		N/A
3.2.3	Permanently connected equipment	Not a permanently connected equipment.	N/A

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
	Number of conductors, diameter (mm) of cable and conduits .....:	Dto.	—
3.2.4	Appliance inlets	The appliance inlet complies with IEC 60320. The power cord can be inserted without difficulties and does not support the unit.	Pass
3.2.5	Power supply cords	See appended table 1.5.1	Pass
	Type .....:	Dto.	—
	Rated current (A), cross-sectional area (mm^2), AWG .....:	Dto.	—
3.2.6	Cord anchorages and strain relief		N/A
	Mass of equipment (kg), pull (N) .....:		—
	Longitudinal displacement (mm) .....:		—
3.2.7	Protection against mechanical damage	No parts under this unit likely to damage the power supply cord. No sharp edge.	Pass
3.2.8	Cord guards	No cord guard	N/A
	D (mm); test mass (g) .....:	Dto.	—
	Radius of curvature of cord (mm) .....:	Dto.	—
3.2.9	Supply wiring space		N/A
3.3	**Wiring terminals for connection of external conductors**		N/A
3.3.1	Wiring terminals		N/A
3.3.2	Connection of non-detachable power supply cords		N/A
3.3.3	Screw terminals		N/A
3.3.4	Rated current (A), cord/cable type, cross-sectional area (mm^2).....:		N/A
3.3.5	Rated current (A), type and nominal thread diameter (mm).....:		N/A
3.3.6	Wiring terminals design		N/A
3.3.7	Grouping of wiring terminals		N/A
3.3.8	Stranded wire		N/A
3.4	**Disconnection from the a.c. mains supply**		Pass
3.4.1	General requirement	Disconnect device provided.	Pass
3.4.2	Disconnect devices	Appliance inlet	Pass
3.4.3	Permanently connected equipment	Not a permanently connected equipment.	N/A

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
3.4.4	Parts which remain energized	When plug cord or inlet is disconnected no remaining parts with hazardous voltage in the equipment.	Pass
3.4.5	Switches in flexible cords		N/A
3.4.6	Single-phase equipment	The power cord plug or inlet disconnects both poles simultaneously.	Pass
3.4.7	Three-phase equipment	Single phase.	N/A
3.4.8	Switches as disconnect devices		N/A
3.4.9	Plugs as disconnect devices		N/A
3.4.10	Interconnected equipment	Interconnection to other devices by secondary output cable only.	N/A
3.4.11	Multiple power sources	Only one supply connection provided.	N/A
3.5	**Interconnection of equipment**		Pass
3.5.1	General requirements		Pass
3.5.2	Types of interconnection circuits..... :	The power supply is considered for connection to SELV only.	Pass
3.5.3	ELV circuits as interconnection circuits	NO ELV interconnection.	N/A
4	PHYSICAL REQUIREMENTS		Pass
4.1	**Stability**		Pass
	Angle of 10°	This unit is of a stable mechanical construction and does not overbalance when tilted to an angle of 10 degrees from its normal upright position.	Pass
	Test: force (N) ..... :	Not floor standing	N/A
4.2	**Mechanical strength**		Pass
4.2.1	General	See below.	Pass
4.2.2	Steady force test, 10 N		N/A
4.2.3	Steady force test, 30 N		N/A
4.2.4	Steady force test, 250 N	250N applied to all outer enclosure. No energy or other hazards.	Pass
4.2.5	Impact test	No hazard as result from impact test.	Pass

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
4.2.6	Drop test	Not hand-held equipment	N/A
4.2.7	Stress relief	Metal enclosure.	N/A
4.2.8	Cathode ray tubes	Not provided.	N/A
	Picture tube separately certified.....:		N/A
4.2.9	High pressure lamps	Not provided.	N/A
4.2.10	Wall or ceiling mounted equipment; force (N) ....:		N/A
4.3	**Design and construction**		Pass
4.3.1	Edges and corners	Edges and corners of the enclosure are rounded.	Pass
4.3.2	Handles and manual controls; force (N) .....:		N/A
4.3.3	Adjustable controls	No control device	N/A
4.3.4	Securing of parts	No connection likely to be exposed to mechanical stress are provided in unit.	Pass
4.3.5	Connection of plugs and sockets	No mismatching connector, plug or socket possible.	Pass
4.3.6	Direct plug-in equipment	Not direct plug-in equipment	N/A
	Torque (Nm).....:	Dto.	—
4.3.7	Heating elements in earthed equipment	No heating element.	N/A
4.3.8	Batteries	A devise which prevent reverse polarity installation provided.	Pass
4.3.9	Oil and grease	No oil or grease.	N/A
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	Pass
4.3.11	Containers for liquids or gases	No containers for liquid or gases.	N/A
4.3.12	Flammable liquids .....:	No flammable liquids in the equipment.	N/A
	Quantity of liquid (l) .....:	Dto.	N/A
	Flash point (°C) .....:	Dto.	N/A
4.3.13	Radiation; type of radiation .....:	Dto.	N/A
	Equipment using lasers	No laser used	N/A
4.4	**Protection against hazardous moving parts**		Pass
4.4.1	General		Pass
4.4.2	Protection in operator access areas	Fan guard used.	Pass
4.4.3	Protection in restricted access locations	No hazardous moving part in restricted access areas.	N/A

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
4.4.4	Protection in service access areas		N/A
4.5	**Thermal requirements**		Pass
4.5.1	Temperature rises	(see appended table)	Pass
	Normal load condition per Annex L ..... :	Dto.	Pass
4.5.2	Resistance to abnormal heat	Dto.	Pass
4.6	**Openings in enclosures**		Pass
4.6.1	Top and side openings	No hazardous parts within 5° projection area. Construction A: - Front side: (1) Numerous openings provided and cover an area, measured 108 by 115.3 mm. - Rear side: Numerous openings provided, cover an area measured 260 by 19.7 mm. Also provided with numerous openings for one additional dc fan, measured maximum 11.2 by 6.3 mm. Construction B: - Construction same as Construction A except for not providing ventilation openings for a additional dc fan.	Pass
	Dimensions (mm) ..... :	Front side: Each opening 19.6 by 2.9 mm. Rear: Each opening 19.7 by 2.9 mm.	—
4.6.2	Bottoms of fire enclosures	No bottorm opening provided.	N/A
	Construction of the bottom ..... :		—
4.6.3	Doors or covers in fire enclosures		N/A
4.6.4	Openings in transportable equipment	Not transportable equipment.	N/A
4.6.5	Adhesives for constructional purposes		N/A
	Conditioning temperature/time ..... :		—
4.7	**Resistance to fire**		Pass
4.7.1	Reducing the risk of ignition and spread of flame	Use of materials with the required flammability classes.	Pass

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
4.7.2	Conditions for a fire enclosure	See below	Pass
4.7.2.1	Parts requiring a fire enclosure	With having the following components: - components in primary - Components in secondary (not supplied by LPS). - components having unenclosed arcing parts at hazardous voltage or energy level. - insulated wiring - semiconductor devices, transistors, diodes, integrated circuits. - resistors, capacitors, inductors. - the fire enclosure is required.	Pass
4.7.2.2	Parts not requiring a fire enclosure		N/A
4.7.3	Materials		Pass
4.7.3.1	General		Pass
4.7.3.2	Materials for fire enclosures	metal used	Pass
4.7.3.3	Materials for components and other parts outside fire enclosures		N/A
4.7.3.4	Materials for components and other parts inside fire enclosures	Internal components except small parts are V-2, HF-2 or better.	Pass
4.7.3.5	Materials for air filter assemblies	No air filter	N/A
4.7.3.6	Materials used in high-voltage components	No high voltage component.	N/A

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

5	**ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS**		**Pass**
5.1	**Touch current and protective conductor current**		Pass
5.1.1	General	See sub-clauses 5.1.2 to 5.1.6	Pass
5.1.2	Equipment under test (EUT)	EUT has only one mains connection.	Pass
5.1.3	Test circuit	Using figure 5A.	Pass
5.1.4	Application of measuring instrument	Using measuring instrument in annex D.	Pass
5.1.5	Test procedure	The touch current was measured from primary to metal enclosure.	Pass
5.1.6	Test measurements	See below	Pass
	Test voltage (V) .....:	See appended table 5.1.6	—
	Measured current (mA) .....:	See appended table 5.1.6	—
	Max. allowed current (mA) .....:	See appended table 5.1.6	—
5.1.7	Equipment with touch current exceeding 3.5 mA .....:	Touch current does not exceed 3.5mA.	Pass
5.1.8	Touch currents to and from telecommunication networks	No TNV	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network	Dto.	N/A
	Test voltage (V) .....:	Dto.	—
	Measured current (mA) .....:	Dto.	—
	Max. allowed current (mA) .....:	Dto.	—
5.1.8.2	Summation of touch currents from telecommunication networks.....:	No TNV	N/A

5.2	**Electric strength**		Pass
5.2.1	General	See appended table 5.2	Pass
5.2.2	Test procedure	See appended table 5.2	Pass

5.3	**Abnormal operating and fault conditions**		Pass
5.3.1	Protection against overload and abnormal operation	See below.	Pass
5.3.2	Motors	Certified fans used, no hazard.	Pass
5.3.3	Transformers	Approved power supply used.	Pass
5.3.4	Functional insulation .....:	Approved power supply used.	Pass

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
5.3.5	Electromechanical components	No electromechanical component other than motor provided.	N/A
5.3.6	Simulation of faults	Result see appended table.	Pass
5.3.7	Unattended equipment	Not provided.	N/A
5.3.8	Compliance criteria for abnormal operating and fault conditions	No fire propagated beyond the equipment. No molten metal was emitted.	Pass
6	**CONNECTION TO TELECOMMUNICATION NETWORKS**		N/A
6.1	**Protection of telecommunication network service personnel, and users of other equipment connected to the network, from hazards in the equipment**		N/A
6.1.1	Protection from hazardous voltages		N/A
6.1.2	Separation of the telecommunication network from earth		N/A
6.1.2.1	Requirements		N/A
	Test voltage (V) .....:		—
	Current in the test circuit (mA) .....:		—
6.1.2.2	Exclusions .....:		N/A
6.2	**Protection of equipment users from overvoltages on telecommunication networks**		N/A
6.2.1	Separation requirements		N/A
6.2.2	Electric strength test procedure		N/A
6.2.2.1	Impulse test		N/A
6.2.2.2	Steady-state test		N/A
6.2.2.3	Compliance criteria		N/A
6.3	**Protection of telecommunication wiring system from overheating**		N/A
	Max. output current (A) .....:		—
	Current limiting method .....:		—

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

A	**ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE**		N/A
A.1	**Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)**		N/A
A.1.1	Samples, material .....:		—
	Wall thickness (mm) .....:		—
A.1.2	Conditioning of samples; temperature (°C).....:		N/A
A.1.3	Mounting of samples.....:		N/A
A.1.4	Test flame		N/A
A.1.5	Test procedure		N/A
A.1.6	Compliance criteria		N/A
	Sample 1 burning time (s).....:		—
	Sample 2 burning time (s).....:		—
	Sample 3 burning time (s).....:		—

A.2	**Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)**		N/A
A.2.1	Samples, material .....:		—
	Wall thickness (mm) .....:		—
A.2.6	Compliance criteria		N/A
	Sample 1 burning time (s).....:		—
	Sample 2 burning time (s).....:		—
	Sample 3 burning time (s).....:		—
A.2.7	Alternative test acc. To IEC 60695-2-2, cl. 4, 8		N/A
	Sample 1 burning time (s).....:		—
	Sample 2 burning time (s).....:		—
	Sample 3 burning time (s).....:		—

A.3	**High current arcing ignition test (see 4.7.3.2)**		N/A
A.3.1	Samples, material .....:		—
	Wall thickness (mm) .....:		—
A.3.5	Compliance criteria		N/A
	Sample 1 number of arcs to ignition (pcs) .....:		—
	Sample 2 number of arcs to ignition (pcs) .....:		—
	Sample 3 number of arcs to ignition (pcs) .....:		—
	Sample 4 number of arcs to ignition (pcs) .....:		—

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
	Sample 5 number of arcs to ignition (pcs) .....:		—
A.4	**Hot wire ignition test (see 4.7.3.2)**		N/A
A.4.1	Samples, material .....:		—
	Wall thickness (mm) .....:		—
A.4.5	Compliance criteria		N/A
	Sample 1 ignition time (s).....:		—
	Sample 2 ignition time (s).....:		—
	Sample 3 ignition time (s).....:		—
	Sample 4 ignition time (s).....:		—
	Sample 5 ignition time (s).....:		—
A.5	**Hot flaming oil test (see 4.6.2)**		N/A
A.6	**Flammability tests for classifying materials V-0, V-1 or V-2**		N/A
A.6.1	Samples, material .....:		—
	Wall thickness (mm) .....:		—
A.6.5	Compliance criteria		N/A
A.6.6	Permitted re-test		N/A
A.7	**Flammability test for classifying foamed materials HF-1, HF-2 or HFB**		N/A
A.7.1	Sample, material .....:		—
	Wall thickness (mm) .....:		—
A.7.4	Compliance criteria		N/A
A.7.5	Compliance criteria, HF-2		N/A
A.7.6	Compliance criteria, HF-1		N/A
A.7.7	Compliance criteria, HBF		N/A
A.7.8	Permitted re-test, HF-1 or HF-2		N/A
A.7.9	Permitted re-test, HBF		N/A
A.8	**Flammability test for classifying materials HB**		N/A
A.8.1	Samples, material .....:		—
	Sample thickness (mm) .....:		—
A.8.2	Conditioning of samples; temperature (°C).....:		N/A
A.8.4	Test procedure		N/A
A.8.5	Compliance criteria		N/A
A.8.6	Permitted re-test		N/A

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict
A.9	**Flammability test for classifying materials 5V**		N/A
A.9.1	Samples, material ..... :		—
	Sample thickness (mm) ..... :		—
A.9.4	Test procedure, test bars		N/A
A.9.5	Test procedure, test plaques		N/A
A.9.6	Compliance criteria		N/A
A.9.7	Permitted re-test		N/A
A.10	**Stress relief conditioning (see 4.2.7)**		N/A
	Temperature (°C) ..... :		—

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

B	**ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)**		N/A
B.1	General requirements		N/A
	Position ..... :		—
	Manufacturer ..... :		—
	Type ..... :		—
	Rated values ..... :		—
B.2	Test conditions		N/A
B.3	Maximum temperatures		N/A
B.4	Running overload test		N/A
B.5	Locked-rotor overload test		N/A
	Test duration (days) ..... :		—
	Electric strength test: test voltage (V) ..... :		—
B.6	Running overload test for DC motors in secondary circuits		N/A
B.7	Locked-rotor overload test for DC motors in secondary circuits		N/A
B.7.1	Test procedure		N/A
B.7.2	Alternative test procedure; test time (h) ..... :		N/A
B.7.3	Electric strength test		N/A
B.8	Test for motors with capacitors		N/A
B.9	Test for three-phase motors		N/A
B.10	Test for series motors		N/A
	Operating voltage (V) ..... :		—

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

C	**ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)**		Pass
	Position ..... :	Located on approved power supply.	
	Manufacturer ..... :		
	Type ..... :		
	Rated values ..... :		
	Method of protection ..... :		
C.1	Overload test		Pass
C.2	Insulation		Pass
	Protection from displacement of windings ..... :		Pass

G	**ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES**		N/A
G.1	Summary of the procedure for determining minimum clearances		N/A
G.2	Determination of mains transient voltage (V)..... :		N/A
G.3	Determination of telecommunication network transient voltage (V) ..... :		N/A
G.4	Determination of required withstand voltage (V) . :		N/A
G.5	Measurement of transient levels (V) ..... :		N/A
G.6	Determination of minimum clearances ..... :		N/A

H	**ANNEX H, IONIZING RADIATION (see 4.3.13)**		N/A
	Ionizing radiation		N/A
	Measured radiation (mR/h) ..... :		—
	Measured high-voltage (kV) ..... :		—
	Measured focus voltage (kV) ..... :		—
	CRT markings ..... :		—

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

J	**ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)**		N/A
	Metal used ..... :		—

K	**ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.7)**		N/A
K.1	Making and breaking capacity		N/A
K.2	Thermostat reliability; operating voltage (V)..... :		N/A
K.3	Thermostat endurance test; operating voltage (V) ..... :		N/A
K.4	Temperature limiter endurance; operating voltage (V) ..... :		N/A
K.5	Thermal cut-out reliability		N/A
K.6	Stability of operation		N/A

M	**ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)**		N/A
M.2	Method A		N/A
M.3	Method B		N/A
M.3.1	Ringing signal		N/A
M.3.1.1	Frequency (f)..... :		—
M.3.1.2	Voltage (V) ..... :		—
M.3.1.3	Cadence; time (s), voltage (V) ..... :		—
M.3.1.4	Single fault current (mA) ..... :		—
M.3.2	Tripping device and monitoring voltage ..... :		N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
M.3.2.2	Tripping device		N/A
M.3.2.3	Monitoring voltage (V) ..... :		N/A

U	**ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)**		N/A
	Separate test report		N/A

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

1.5.1	TABLE: list of critical components				Pass
object/part No.	manufacturer/ trademark	type/model	technical data	Standard	mark(s) of conformity[1])
1. Power Plug	Various	--	250Vac, 10A	VDE0620, IEC60320	VDE
2. Power Cable	Various	--	3G, 0.75mm^2	VDE 0281	VDE
3. Power Connector	Various	--	250Vac, 10A	VDE0620, IEC60320	VDE
4. Power Supply	Delta	DPS-300GB-1 XX	Input: 100-127/ 200-240Vac, 9/ 4.5A, 60/50Hz. Output: +12Vdc/15A, +5Vdc/28A, +3.3Vdc/30A, -12Vdc/0.8A, -5Vdc/0.3A, +5VSB/2A	EN 60950	TUV, UL
	FSP	FSP250-60ATV, FSP250-60ATV (PF)	Input: 115/ 230Vac, 9/ 5A, 60/50Hz. Output: +12Vdc/13A, +5Vdc/27A, +3.3Vdc/20A, -12Vdc/0.8A, -5Vdc/0.3A, +5VSB/2A	EN 60950	TUV, NEMKO, UL
5. Hard Disk	Various	--	+5/+12Vdc, 1.5/1.8A maximum.	EN 60950	TUV, UL
6. Floppy Disk (Optional)	Various	--	+5/+12Vdc, 1.5/1.8A maximum.	EN 60950	TUV, UL
7. CD-ROM Drive (Optional)	Various	--	+5/+12Vdc, 1.5/1.8A maximum.	EN 60950	TUV, UL
8. RTC Battery	Rayvoas	BR2032	3.0Vdc, 190mAh	--	UL
	Rayvoas	BR2335	3.0Vdc, 300mAh	--	UL
9. DC Fan	Delta	EFB1212H	+12Vdc, 0.27A	EN 60950	TUV, UL
	Delta	AFB1212SH	+12Vdc, 0.53A	EN 60950	TUV, UL
	Rotechnic	MGA12012HB-O25	+12Vdc, 0.45A	EN 60950	TUV, UL
	Adda	AD1212HB-A71GL	+12Vdc, 0.37A	EN 60950	TUV, UL
	Yate Loon	D12BM-12	+12Vdc, 0.3A	EN 60950	TUV, UL
	Globefan	B1202512M	+12Vdc, 0.22A	EN 60950	TUV, UL

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

10. CPU Fan	Sanyo	109X9412T5H036	+12Vdc, 0.16A	EN 60950	TUV, UL
	Everflow	R126010BU	+12Vdc, 0.25A	EN 60950	TUV, UL
11. Polyswitch	Tyco	RGE300	Trip current 3A	--	UL
		MiniSMD110 series	Trip current 1.1A	--	UL
14. PCB	Various	Various	V-1 min. 105℃	UL94	UL
15. Enclosure Material	---	Metal	0.9 mm thick minimum.	--	--

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

1.6.2	**TABLE: electrical data (in normal conditions)**					Pass
fuse #	I rated (A)	U (V)	P (W)	I (A)	I fuse (A)	condition/status
Power Supply: Delta Electronics Inc., Type DPS-300GB-1 XX, Main Board: SMB-2501.						
--	--	103V/50Hz	136.8	1.354	1.354	Maximum normal load.
--	--	103V/60Hz	137.4	1.386	1.386	Dto.
--	9	115V/50Hz	135.8	1.250	1.250	Dto.
--	9	115V/60Hz	136.2	1.265	1.265	Dto.
--	--	127V/50Hz	134.3	1.112	1.112	Dto.
--	--	127V/60Hz	135.4	1.165	1.165	Dto.
--	--	207V/50Hz	125.6	0.723	0.723	Dto.
--	--	207V/60Hz	129.8	0.738	0.738	Dto.
--	5	230V/50Hz	126.7	0.657	0.657	Dto.
--	5	230V/60Hz	130.1	0.671	0.671	Dto.
--	--	253V/50Hz	126.5	0.601	0.601	Dto.
--	--	253V/60Hz	129.5	0.640	0.640	Dto.
Power Supply: Delta Electronics Inc., Type DPS-300GB-1 XX, Main Board: PCA-6178.						
--	--	103V/50Hz	141.6	1.436	1.436	Maximum normal load.
--	--	103V/60Hz	142.1	1.418	1.418	Dto.
--	9	115V/50Hz	143.3	1.287	1.287	Dto.
--	9	115V/60Hz	142.1	1.282	1.282	Dto.
--	--	127V/50Hz	141.5	1.198	1.198	Dto.
--	--	127V/60Hz	142.5	1.204	1.204	Dto.
--	--	207V/50Hz	138.0	0.763	0.763	Dto.
--	--	207V/60Hz	138.4	0.763	0.763	Dto.
--	5	230V/50Hz	136.1	0.700	0.700	Dto.
--	5	230V/60Hz	136.4	0.701	0.701	Dto.
--	--	253V/50Hz	132.8	0.650	0.650	Dto.
--	--	253V/60Hz	133.4	0.646	0.646	Dto.
Power Supply: FSP Group Inc., Type FSP250-60ATV, Main Board: SMB-2501.						
--	--	103V/50Hz	128.4	1.525	1.525	Maximum normal load.
--	--	103V/60Hz	127.6	1.520	1.520	Dto.
--	9	115V/50Hz	127.4	1.428	1.428	Dto.
--	9	115V/60Hz	128.3	1.416	1.416	Dto.
--	--	127V/50Hz	128.7	1.387	1.387	Dto.
--	--	127V/60Hz	128.7	1.373	1.373	Dto.

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

--	--	207V/50Hz	122.8	0.865	0.865	Dto.
--	--	207V/60Hz	123.1	0.861	0.861	Dto.
--	5	230V/50Hz	124.7	0.823	0.823	Dto.
--	5	230V/60Hz	123.4	0.820	0.820	Dto.
--	--	253V/50Hz	125.1	0.787	0.787	Dto.
--	--	253V/60Hz	125.7	0.769	0.769	Dto.
Power Supply: FSP Group Inc., Type FSP250-60ATV, Main Board: PCA-6178						
--	--	103V/50Hz	129.6	1.502	1.502	Maximum normal load.
--	--	103V/60Hz	129.0	1.486	1.486	Dto.
--	9	115V/50Hz	131.2	1.412	1.412	Dto.
--	9	115V/60Hz	130.6	1.402	1.402	Dto.
--	--	127V/50Hz	135.8	1.356	1.356	Dto.
--	--	127V/60Hz	136.2	1.348	1.348	Dto.
--	--	207V/50Hz	127.6	0.782	0.782	Dto.
--	--	207V/60Hz	126.8	0.786	0.786	Dto.
--	5	230V/50Hz	127.8	0.712	0.712	Dto.
--	5	230V/60Hz	128.2	0.716	0.716	Dto.
--	--	253V/50Hz	130.1	0.670	0.670	Dto.
--	--	253V/60Hz	131.3	0.674	0.674	Dto.
supplementary information:						

2.6.3.3 and 2.6.1	**TABLE: earthing test**	Pass

Location	resistant measures (Ω)	comments
Power Supply: Delta Electronics Inc., Type DPS-300GB-1 XX		
AC inlet earthed pin to metal enclosure	0.02	25A/1 min.
Power Supply: FSP Group Inc., Type FSP250-60ATV		
AC inlet earthed pin to metal enclosure	0.04	25A/1 min.

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

4.5	**TABLE: temperature rise measurements**		Pass
	test voltage (V) .....:	103/127/207/253/230 Ventilation openings blocked/230 All fan locked	—
	t1 (°C) .....:	--	—
	t2 (°C) .....:	--	—

temperature rise dT of part/at:	dT (K)	Required dT (K)
Power Supply: Delta Electronics Inc., Type DPS-300GB-1 XX, Main Board: SMB-2501.		
Ambient	24/26/26/24/25/24℃	--
Power Supply		
T1 coil	7/6/6/8/20/72	50
T1 core	10/8/7/11/22/74	50
T901 coil	13/7/7/13/24/69	50
T901 core	14/14/14/14/24/69	50
C8 body	5/3/3/5/16/75	65
PWB near HS2	10/6/6/11/23/65	65
L101 coil	9/9/9/10/22/58	65
Enclosure outside near HS2	5/4/4/5/19/37	30
Main Board		
C206 body	8/9/9/9/21/28	45
PWB near U12	10/9/8/10/23/37	65
RTC battery body	7/1/1/4/15/17	--
PWB near CPU	9/8/8/9/22/53	65
L36 coil	7/8/8/8/20/33	65
PWB near Q25	5/12/12/16/27/37	65
System		
CD-ROM body	5/3/3/5/16/25	--
HDD body	10/8/8/10/21/29	--
FDD body	6/5/5/6/15/21	--
Enclosure outside near Power Supply	2/1/1/3/16/17	30
Power Supply: Delta Electronics Inc., Type DPS-300GB-1 XX, Main Board: PCA-6178.		
Ambient	26/26/26/26/26/26℃	--
Power Supply		
T1 coil	12/11/12/12/38/51	50
T1 core	10/10/10/10/37/46	50

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

T901 coil	15/15/15/15/42/55	50
T901 core	13/13/12/12/39/54	50
C8 body	8/8/8/8/36/39	65
PWB near HS2	11/11/11/11/38/56	65
L101 coil	17/17/17/17/43/61	65
Enclosure outside near HS2	8/8/8/7/37/39	30
Main Board		
U16 body	15/15/16/15/43/45	--
U13 body	16/16/17/16/46/47	--
U12 body	17/17/18/17/47/47	--
PWB near CPU	12/12/12/12/42/43	65
PWB near Q6	14/14/14/14/44/41	65
RTC body	12/12/12/12/41/39	--
L33 coil	14/14/14/14/43/41	65
C12 body	12/12/12/12/41/42	45
Control Board		
PWB under Q1	11/11/11/11/40/37	65
U1 body	11/11/12/11/41/39	--
System		
CD-ROM body	6/6/6/6/31/31	--
HDD body	14/14/14/14/38/35	--
FDD body	6/6/7/6/33/31	--
Enclosure outside near Power Supply	3/3/4/3/27/19	30
Power Supply: FSP Group Inc., Type FSP250-60ATV, Main Board: SMB-2501.		
Ambient	24/25/25/25/24/24℃	--
Power Supply		
T1 coil	8/7/7/7/23/62	50
T1 core	8/8/7/7/23/66	50
C1 body	5/5/4/4/19/72	65
L7 coil	10/12/9/11/26/54	65
T3 coil	13/9/8/8/24/34	50
T3 core	11/7/6/6/23/29	50
Enclosure inside near T1	4/3/3/2/21/37	30
Main Board		
C206 body	7/6/6/5/23/30	45

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

PWB near U12	10/10/9/9/25/37	65
RTC battery body	2/1/1/0/17/16	--
PWB near CPU	8/8/8/8/24/53	65
L36 coil	7/7/6/6/22/32	65
PWB near Q25	15/14/13/13/29/38	65
System		
CD-ROM body	5/4/4/3/17/22	--
HDD body	9/9/8/8/23/27	--
FDD body	6/5/5/4/18/19	--
Enclosure outside near Power Supply	2/1/1/0/16/14	30
Power Supply: FSP Group Inc., Type FSP250-60ATV, Main Board: PCA-6178		
Ambient	27/26/26/26/25/25℃	--
Power Supply		
T1 coil	9/9/10/10/23/45	50
T1 core	9/9/10/11/24/43	50
C1 body	6/6/6/7/21/40	65
L7 coil	13/16/14/18/35/67	65
T3 coil	9/9/9/10/23/51	50
T3 core	9/10/10/11/24/53	50
Enclosure inside near T1	4/4/5/5/21/27	30
Main Board		
U16 body	10/9/10/10/26/30	--
U13 body	13/12/13/13/29/33	--
U12 body	13/12/14/14/30/34	--
PWB near CPU	10/8/10/10/26/28	65
PWB near Q6	14/12/14/13/30/33	65
RTC body	8/7/8/8/24/26	--
L33 coil	12/10/11/11/28/31	65
C12 body	9/8/10/10/26/30	45
Control Board		
PWB under Q1	7/6/8/7/24/26	65
U1 body	8/7/9/9/25/27	--
System		
CD-ROM body	4/4/5/5/20/23	--
HDD body	11/10/12/12/26/28	--

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

FDD body	6/7/8/8/21/22	--
Enclosure outside near Power Supply	2/1/2/3/16/13	30

comments:

The temperatures were measured under worst case normal mode defined in 1.2.2.1 and described in 1.6.2 at voltages as described in 1.4.5

Without specified ambient temperature in users manual, therefore the ambient temperature assumed as 40 ℃, the max. temperature rise is calculated as follows:

Winding components:

- class A → dTmax = 75K – 10K-(40-25)K = 50 K

Electrolyte capacitor or components with:

- max. absolute temp. of 105 ℃ → dTmax = (105-40-)K = 65 K
- max. absolute temp. of 85 ℃ → dTmax = (85-40-)K = 45 K

Enclosure temp. 45K → dTmax = 45 - (40-25)K = 30 K

5.1	**TABLE: touch current test**			Pass
Condition	switch “e”	switch on	switch off	comment
Power Supply: Delta Electronics Inc., Type DPS-300GB-1 XX				
Earthing conductor to acessiable metal parts	open	0.52	0.52	
Power Supply: FSP Group Inc., Type FSP250-60ATV				
Earthing conductor to acessiable metal parts	open	0.62	0.60	

Input voltage: 253V

Intput frequency: 60Hz

Overall capacity: In approved power supply.

5.2.2	**TABLE: electric strength tests (for all power supply)**	Pass
test voltage applied between:	test voltage (V)	breakdown Yes / No
Primary to Secondary	4242 Vdc	No
Primary to Earth	3000 Vdc	No

supplementary information: N/A

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

Photos

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

EN 60950			
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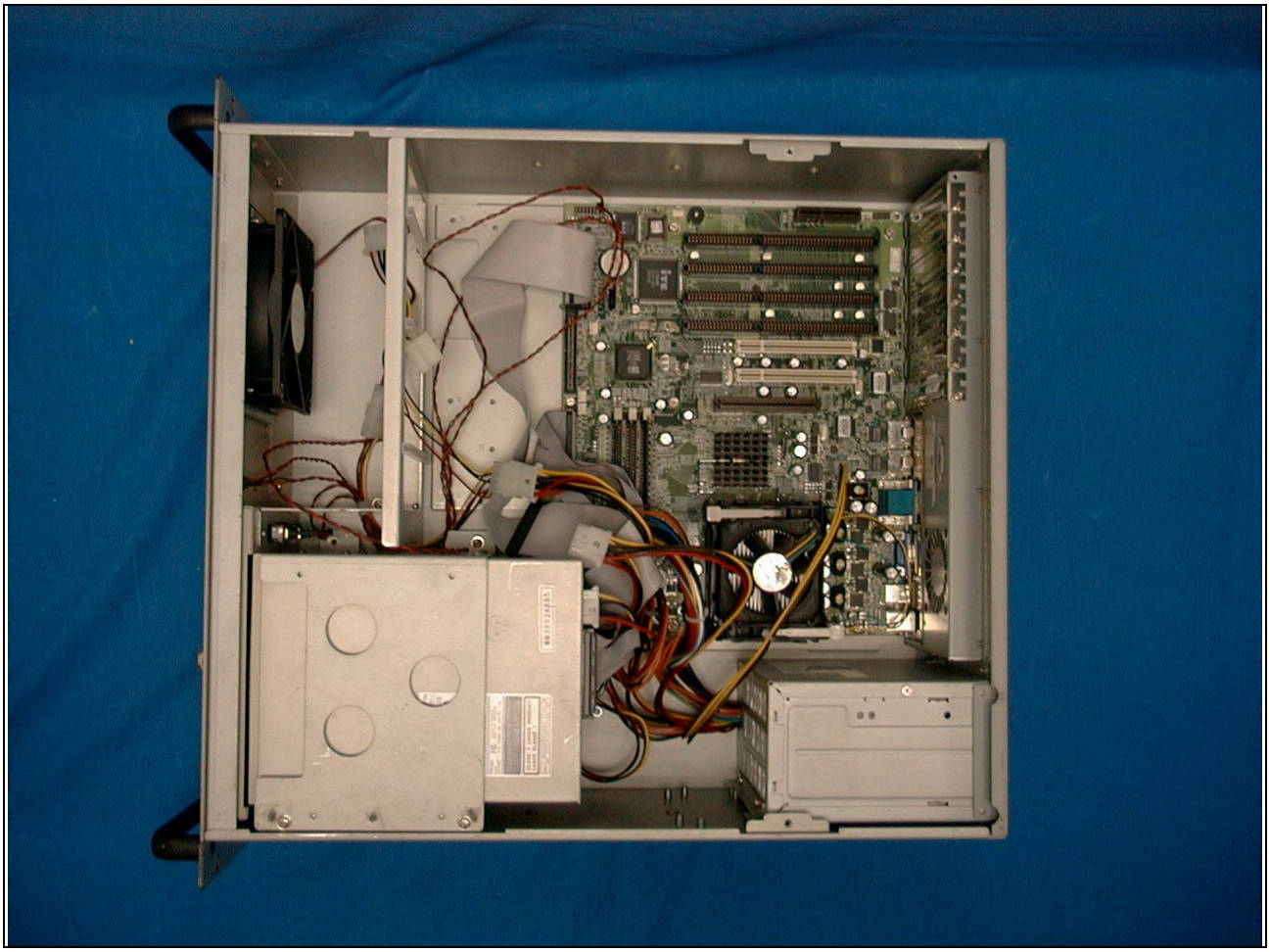
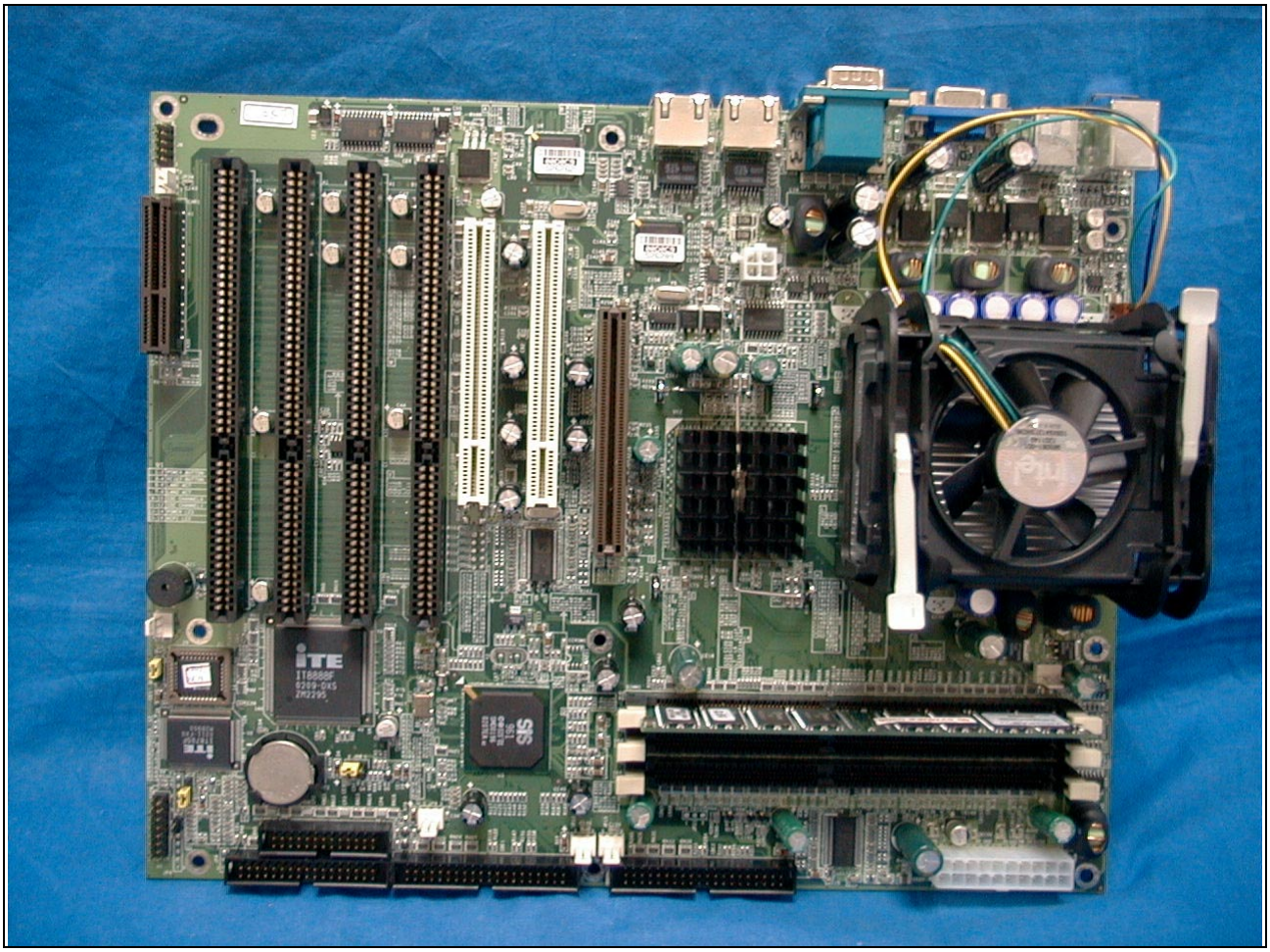


EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict



EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict